

What is claimed is:

1. A sintered alloy comprising:
a sintered alloy body formed by compacting material powders and
5 then sintering the same,
wherein said sintered alloy body has pores providing a porosity 2
to 35 volume %, each pore having an inlet portion having a pore inlet
diameter and an inside portion having a pore inside diameter, wherein
said pore inlet diameter is from about 10 to about 200 μm , and an
10 average ratio of said pore inlet diameter to said pore inside diameter is at
least about 2.0,
wherein said sintered alloy body has a resin film layer on at least a
portion of a surface thereof.
- 15 2. A sintered alloy according to claim 1, wherein said sintered
alloy body is a bearing body.
3. A sintered alloy according to claim 2, wherein said bearing body
has end faces on axially opposite ends of said bearing body and said resin
20 film layer is located on at least a portion of one of the end faces.
4. A sintered alloy according to claim 1, wherein solid lubricant is
dispersed in said resin film layer.
- 25 5. A sintered alloy according to claim 2, wherein solid lubricant is
dispersed in said resin film layer.
6. A sintered alloy according to claim 4, wherein said solid
lubricant makes up 1 to 40 volume % of said resin film layer.
- 30 7. A sintered alloy according to claim 5, wherein said solid

lubricant makes up 1 to 40 volume % of said resin film layer.

8. A sintered alloy of claim 4, wherein said resin film layer contains an effective amount of solid lubricant.

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9. A sintered alloy of claim 5, wherein said resin film layer contains an effective amount of solid lubricant.

10. A method of manufacturing a sintered alloy comprising:
10 forming a sintered alloy body, having pores therein providing a porosity of about 2 to above 35 volume %, wherein each pore has an inlet portion having a pore inlet of about 0 to about 200 μm , and an inside portion having a pore inside diameter; wherein an average ratio of said pore inlet diameter to said pore inside diameter is at least 2.0, and
15 forming a resin film layer comprising solid lubricant coating on at least a portion of a surface of the sintered alloy body, using solid lubricant coating.

11. A method of manufacturing a sintered alloy according to claim
20 10, wherein said sintered alloy body is a bearing body.

12. A method of manufacturing a sintered alloy according to claim
11, wherein said bearing body is formed with end faces an axially opposite ends thereof, and said resin film layer is provided on at least a
25 portion of one of the end faces.

13. A method of manufacturing a sintered alloy according to claim
10, further including the step of pressing said resin film layer against said sintered alloy body after forming the resin film layer.

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14. A method of manufacturing a sintered alloy according to claim

11, further including the step of pressing said resin film layer against said sintered alloy body after forming the resin film layer.

15 15. A method of manufacturing a sintered alloy according to claim 12, further including the step of pressing said resin film layer against said sintered alloy body after forming the resin film layer.

10 16. A method of manufacturing a sintered alloy according to claim 13, wherein said pressing is performed during a sizing process.

17. A method of manufacturing a sintered alloy according to claim 14, wherein said pressing is performed during a sizing process.

15 18. A method of manufacturing a sintered alloy according to claim 15, wherein said pressing is performed during a sizing process.

20 19. A method of manufacturing a sintered alloy according to claim 10, wherein said resin film layer is formed by printing said solid lubricant coating.

20. A method of manufacturing a sintered alloy according to claim 11, wherein said resin film layer is formed by printing said solid lubricant coating.

25 21. A method of manufacturing a sintered alloy according to claim 19, wherein said printing comprises is a screen printing process.

30 22. A method of manufacturing a sintered alloy according to claim 20, wherein said printing comprises is a screen printing process.